

DWPI

DERWENT-ACC-NO: 2000-136942

DERWENT-WEEK: 200025

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TITLE: Delivery device for treating erectile dysfunction in a patient

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PRIORITY-DATA: 1998US-0090674 (June 25, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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AU 9947200 A	January 10, 2000	N/A	000	A61F 005/41
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WO 9966870 A1	December 29, 1999	E	025	A61F 005/41
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DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK  
EE ES FI G

B GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD  
MG MK

MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU  
ZW AT BE

CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE  
SL SZ U

G ZW

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
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AU 9947200A	N/A	1999AU-0047200	June 25, 1999
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AU 9947200A	Based on	WO 9966870	N/A
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WO 9966870A1	N/A	1999WO-US14410	June 25, 1999
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INT-CL\_(IPC): A61F005/41; A61K009/00

ABSTRACTED-PUB-NO: WO 9966870A

BASIC-ABSTRACT: NOVELTY - A delivery device for treating erectile dysfunction  
in a patient comprises a disk formed from filmogenic polymers, and having an  
effective dose of a therapeutic agent suitable for reversing erectile  
dysfunction.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a method of treating erectile dysfunction, comprising selecting a disk  
formed from a filmogenic polymer and comprising one or more therapeutic agents  
selected from a vasodilator, a smooth-muscle relaxant, an antidepressant, a  
parasympathetic stimulator, a renin-angiotensin system inhibitor, a local  
anesthetic, an alpha blocker and a calcium channel blocker, and delivering the  
therapeutic agent to the penile surface over a period of time; and

(2) a method of preparing a flexible disk for the treatment of erectile dysfunction, comprises preparing a composition having prostaglandin E1, Eutanol g16S, polyvinyl pyrrolidone (PVP) and PEG 400, and forming the composition to have a backing and a release layer.

ACTIVITY - Vasotropic.

MECHANISM OF ACTION - None given.

USE - The delivery device is used for treating erectile dysfunction in a patient

ADVANTAGE - The invention is simple, safe, convenient and painless to use, but not open to abuse and that delivers an effective therapeutic dose to the penis over a short period of time and is applied directly to the penis surface without using any additional support, and eventually enabling the patient to achieve normal sexual activity.

DESCRIPTION OF DRAWING(S) - The figure shows a graph of cumulative permeation of prostaglandin per unit area of stratum corneum as a function of time, in response to administration of the formulation.

Time in hours X-axis

Amount permeant in  $\mu\text{g}/\text{cm}^2$  y-axis

CHOSEN-DRAWING: Dwg. 1/1

DERWENT-CLASS: A14 A25 A96 B05 B07 P32

CPI-CODES: A04-D05; A12-V01; A12-V03D; B04-C03A; B04-C03B; B04-H03A; B04-N01; B04-N04; B07-D09; B10-C04E; B10-G02; B11-C04A; B12-M02F; B14-N07; B14-P02;